

**Notice of Allowability**

Application No.

08/974,621

Examiner

Dung Nguyen

Applicant(s)

NISHI, TAKESHI

Art Unit

2871

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment dated 02/03/2004.
2. ☒ The allowed claim(s) is/are 1-8, 12-17 and 19-34.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☒ to Paper No./Mail Date 09/01/99.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 03222004 .
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

Dung Nguyen  
Primary Examiner  
Art Unit: 2871

## DETAILED ACTION

### *Examiner's Amendment*

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John F. Hayden on 03/19/2004.

The application has been amended as follows:

. *Abstract* has been rewritten as followed:

A reflection type liquid crystal display panel is arranged such that between an active matrix substrate and an opposing substrate there are provided thin film transistors, interlayer insulating film, pixel electrodes, light reflecting films, orientation film, phase transition type guest/host liquid crystal, orientation film, opposing electrode, and color filter in this order. The pixel electrodes are disposed on the active matrix substrate in the form of a matrix with the interlayer insulating film interposed therebetween and also are respectively connected to the thin film transistors. The light reflecting films are each formed by the upper surface of the pixel electrode per se being made into a porous layer. The porous layer formed as the light reflecting film can make the light scattering large in amount and can also reflect the light in a desired direction by changing its pore size or depth.

. The application has also been amended to correct typographical errors as follow:

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Claim 22, line 3: “transistors” and “electrodes” have been corrected as --transistor-- and -  
-electrode--.

Claim 26, line 3: “transistors” and “electrodes” have been corrected as --transistor-- and -  
-electrode--.

Claim 30, line 3: “transistors” and “electrodes” have been corrected as --transistor-- and -  
-electrode--.

Claim 34, line 3: “transistors” and “electrodes” have been corrected as --transistor-- and -  
-electrode--.

***Reason for Allowance***

2. Claims 1-8, 12-17 and 19-34 are allowed.
3. The following is an examiner’s statement of reasons for allowance:

None of prior art discloses or suggests a reflection type liquid crystal display (LCD) device comprising a light reflective film formed on a pixel electrode (claims 23, 27 and 31) and/or the light reflective film containing at least two layers (claims 1, 8, 14 and 19), wherein the reflective film has a porous surface and a reflectance of the reflection type LCD is 70% or more when applied voltage is 5V to 15V as set forth in claims 1, 8, 14, 19, 23, 27 and 31.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Nguyen whose telephone number is 571-272-2297. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DN  
03/22/2004



**Dung Nguyen**  
**Primary Examiner**  
**Art Unit 2871**